

# ADVANCED STRUCTURAL COMPOSITES

## CENTER

The objective of the Center for Advanced Structural Composites is to develop the commercial potential of the IsoTruss technology. The IsoTruss enables the creation of super lightweight grid structures with the potential of revolutionizing industries as diverse as civil infrastructure (e.g., communication and construction) aerospace, automotive, marine and sporting structures, virtually in any application area requiring high strength, high stiffness, light weight and superb corrosion resistance.

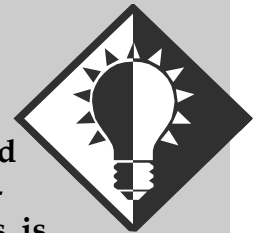
## TECHNOLOGY

The core technology consists of an ultra-lightweight composite structural shape known as the IsoTruss. The IsoTruss is a novel, patented three-dimensional structural form that takes advantage of the highly directional properties of high strength composites to produce an extremely efficient and lightweight structure. The IsoTruss incorporates stable geometric configurations with helical members that spiral in opposing directions around a central cavity, coupled with longitudinal members that pass through the intersections.

## BRIGHAM YOUNG UNIVERSITY

*Can you imagine.....*

A power line transmission tower that can withstand extreme wind conditions, support tremendously heavy loads, is corrosion free, is unaffected by temperature extremes, and weighs significantly less than conventional steel towers?



## ACCOMPLISHMENTS

Several companies are currently negotiating licensing agreements with BYU. This technology, along with expanding applicability, should provide many commercial and engineering solutions to structural problems.

## Contact Information

**Director: David W. Jensen**  
Brigham Young University  
368 Clyde Building, Box 24066  
Provo, Utah 84602  
801-378-2094  
david@byu.edu